

TRUONG HOANG NGOC NHI

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RESEARCH INTEREST

Human-centric physiological computing and ubiquitous health monitoring. What started as daily curiosity from wearing an ECG smartwatch for 5+ months grew into a strong interest in understanding the human body through non-invasive sensors. Keen on exploring how everyday wearable signals (ECG, PPG, EEG) translate into personalized, early-stage health risk estimation and adaptive wellness interventions.

EDUCATION

University of Information Technology, VNU-HCM

Ho Chi Minh City | 2024 to 2027 (expected)

BSc (Hons) Computer Science, joint programme with Birmingham City University (UK)

- Average mark 79.38% (latest semester 83.83%), UK grading scale.
- Modules:** Mobile & Wearable App Development, UX Design, AI & Machine Learning, Cloud Computing.

EXPERIENCE

PMAX

Ho Chi Minh City | 08/2026 to present

AI Engineer Trainee

- Contribute to AuditVista and GrowSure, scanning Facebook, TikTok, and Google Ads for policy violations.
- Built full-stack APIs pulling creatives from ad accounts for automated model review.
- Engineered an automated AI auditing pipeline for 42 Ford Vietnam dealers to detect counterfeit websites for takedowns and track unauthorized out-of-territory ad campaigns.
- Developed automated workflows for domain reconnaissance to uncover illicit site ownership, replacing manual checks.

VietUnion (Payoo)

Ho Chi Minh City | 04/2026 to 07/2026

Business Analyst Intern, AI Team

- Built an on-premise RAG assistant drafting due-diligence answers; wrote SRS and implemented full-stack (FastAPI, Next.js, PostgreSQL/pgvector).
- Implemented hybrid retrieval (embeddings + BM25, RRF); routed low-confidence queries to LLM drafts for human review.
- Integrated local LLM (Ollama) and Gemini API, allowing users to choose the drafting model.
- Completed RFPs for enterprise clients; authored payment-gateway integration manual with a bilingual developer portal.

PROJECTS

AI-Shield: Hybrid SQL-Injection Firewall

[GitHub Repo](#)

Spring Boot, FastAPI, TensorFlow

Built 3 defence layers (regex whitelist, local Bi-LSTM, Gemini fallback) with active learning to continuously reduce false positives.

Credit Scoring Dashboard

[GitHub Repo](#)

Next.js, TypeScript, Chart.js | Team of 2

Developed a multi-step survey and REST API integration with interactive charts visualizing credit score factors.

HustleFlow HRM System

University Project

Vue 3, Vuetify | Team of 4

Led front-end development of the employee, timesheet, and payroll modules.

SKILLS

AI & ML:	RAG, Hybrid Search (BM25 + Vector), Embeddings, TensorFlow/Keras, Gemini API, Ollama
Programming:	Python (FastAPI), Java (Spring Boot), TypeScript, React, Next.js, Vue 3
Data & Tools:	PostgreSQL & pgvector, SQL Server, Git, Postman, SRS/PRD Writing
Languages:	English (IELTS 6.0), Vietnamese (Native)

HONORS & ACTIVITIES

- Honors:** International Talent Student Scholarship; UIT Academic Encouragement Scholarship (Sem 2, Year 2)
- Activities:** President, Photography Club (20 members)